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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,483	07/03/2003	Alan Edward Palmer	F7713(V)	5958
201 7590 01/02/2009 UNILEVER PATENT GROUP 800 SYLVAN AVENUE			EXAMINER	
			MCCORMICK, MELENIE LEE	
AG West S. Wi ENGLEWOOD	ng CLIFFS, NJ 07632-31	100	ART UNIT	PAPER NUMBER
			1655	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/613,483	PALMER ET AL.
Office Action Summary	Examiner	Art Unit
	MELENIE MCCORMICK	1655
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by static Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>03</u> 2a) ☐ This action is FINAL . 2b) ☐ The substitution of the process o	nis action is non-final. vance except for formal matters, pr	
Disposition of Claims		
4) ☐ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and comparison.	rawn from consideration.	
9) The specification is objected to by the Exami	ner	
10) The drawing(s) filed on is/are: a) according to the according applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the latest the speciment of the latest th	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicat riority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03 November 2008 has been entered.

Claims 1-18 are pending and presented for examination on the merits.

Withdrawn Rejections

The previous rejection under 35 U.S.C. 103(a) has been withdrawn upon further consideration.

New Rejections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11, 14-15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell et al. (US 6,063,432) as evidenced by Jones et al. (US 2004/0255074) and wikipedia.org. and in view of Cook et al. (US 4,451,488).

Maxwell et al. beneficially teach a nutritional bar (healthbar) comprising soy protein, the soy protein being in the form of isolates, grits and nuts, which is the major source of protein of the bar (see e.g. col 2, lines 43-53). Maxwell et al. further teach that protein may be present in the bar in a range of about 20-50% by weight (see e.g. claim 1) and that soy protein isolate, soy grits and soy nuts may comprise 7.5-12.5 % by weight each of the total protein, the total protein being in the range of 25-35% by weight. It is therefore clear that the that the soy protein isolate, soy grits, and soy nuts are primarily comprised of soy protein (i.e. close to 100% protein). Maxwell also teaches that the bar may contain minerals such as zinc, copper, manganese, chromium and iron (see e.g. col 1, lines 14-15). Although Maxwell does not disclose the protein is in the form of a nuggets, Applicants have disclosed that a nugget has a size anywhere from 4 mm³ to 35 mm³ (see instant specification page 6, lines 29032). As evidenced by Jones et al., a small soybean ranges from less than 3 mm to 6 mm in diameter (see e.g. [0039]) and a large soybeans can have a diameter larger than 7 mm (see e.g. [0050]). As evidenced by wikipedia.org, soy nuts are made by soaking soybeans in water and baking them. Thus, a soy nut would be expected to have a similar size as the soybean and be within the size range of the nuggets instantly claimed.

Maxwell et al. does not explicitly teach that the nutritional bar comprises glycerol or that the particular protein ranges instantly claimed are present in the health bar.

Cook et al. teaches a food bar with a long shelf life and good flavor (see e.g. col 1, lines 10-12). Cook et al. further teaches that it is known that high levels of moisture in food generally promote microbiological spoiling and growth of organisms such as yeast, molds, and bacteria (see e.g. col 1, lines 33-36). Cook et al. further teaches that the Aw (water activity) of the food bar kept below .55 and is in the range of 0.2 -0.55 (see e.g. col 2, lines 43-53). Cook et al. teach that the low water activity of the food bar is provided by the addition of polyhydric alcohols, including glycerol, and provides stability to the product (see e.g. col 2, lines 55-64). Cook et al. further disclose that glycerol is present in the food bar in an amount of about 3% by weight (see e.g. claim 1).

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to add the humectant glycerol to the food bar taught by Maxwell. A person of ordinary skill in the art at the time the claimed invention was made would have been motivated and would have had a reasonable expectation of success in doing so based upon the disclosure of Cook et al. that glycerol lowers the water activity of food bars, therefore inhibiting the growth of microorganisms and providing greater shelf stability. A person of ordinary skill in the art would therefore recognize this beneficial effect of glycerol and would be motivated to include it in the food bar taught by Maxwell et al. A person of ordinary skill in the art would have been motivated to optimize the amount of protein in the food bar taught by Maxwell et al. depending upon the nutritional needs of those it was intended for.

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed Application/Control Number: 10/613,483

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invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Claims 1-12, 14-15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell et al. (US 6,063,432) as evidenced by Jones et al. (US 2004/0255074) and wikipedia.org. in view of Cook et al. (US 4,451,488), further in view of Nanbu et al. (US 6,074,675).

Maxwell et al. and Cook et al. teach a nutritional food bar comprising soy protein nuggets, transition minerals and glycerol and are relied upon for the reasons set forth above.

Maxwell et al. and Cook et al. do not explicitly teach that the minerals are substantially water insoluble at 20°C.

Nanbu et al. teach a mineral composition and a food which comprises the mineral composition (see e.g. col 1, lines 10-15). Nanbu et al. teach that minerals such as iron and zinc are water insoluble. (see e.g. col 5, lines 44-47).

A person of ordinary skill in the art would have reasonably understood, based upon the disclosure of Nanbu et al., that the transition metals, particularly iron and zinc, would be water insoluble at room temperature (20°C). Although the particular temperature is not disclosed by Nanbu et al., a person of ordinary skill in the art would not expect the solubility to be increased at room temperature and would therefore realize that zinc and iron would be water insoluble at room temperature.

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Claims 1-11 and 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell et al. (US 6,063,432) as evidenced by Jones et al. (US 2004/0255074) and wikipedia.org. in view of Cook et al. (US 4,451,488), Nanbu et al. (US 6,074,675), further in view of Leusner et al. (US 6,468,568) and El Nokaly (US 5,215,757).

Maxwell et al. and Cook et al. teach a nutritional food bar comprising soy protein nuggets, transition minerals and glycerol and are relied upon for the reasons set forth above.

Nanbu further teaches that the iron used in the food composition may be in the form of ferric oxide, iron carbonate, and ferrous phosphate (see e.g. col 5, lines 57-59).

Maxwell et al. and Cook et al. do not explicitly teach that the transition metal is substantially encapsulated in an encapsulation material or that the encapsulation material comprises alginate.

Leusner et al. teach that encapsulation of minerals in foods allows the mineral content of foods to be increased without substantially affecting the taste of the food (see e.g. col 7, lines 60-67).

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El Nokaly teaches that a polysaccharide liquid crystal can be made to encapsulate and deliver nutrients such as minerals to foods (see e.g. col 1, lines 13-15). El Nokaly further teaches that the minerals may include manganese, iron, zinc and copper (see e.g. col 11, lines 10-20). El Nokaly further teaches that the polysaccharide can be alginate (see e.g. claim 8).

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to encapsulate the minerals in the food bar taught by Maxwell. A person of ordinary skill in the art would have had a reasonable expectation of success in doing so based upon the disclosure of Leusner et al. that encapsulation of minerals in foods allows the mineral content of foods to be increased without substantially affecting the taste of the food. Therefore, the benefit of encapsulation of minerals in a food bar would have been clear to a person of ordinary skill in the art at the time the claimed invention was made. A person of ordinary skill in the art would have further been motivated to use a polysaccharide such as an alginate as the encapsulation material based upon the disclosure of El Nokaly that alginate is used as an encapsulation material for minerals, including manganese, iron, zinc and copper. A person of ordinary skill in the art would have also reasonably understood, based upon the disclosure of Nanbu et al., that iron could be used in a food bar such as that taught by Maxwell in the form of ferric oxide, iron carbonate, and ferrous phosphate. This is because Nanbu et al. is also using iron in these forms in a food composition. It would therefore be clear that these forms of iron are options for use in food compositions.

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From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Response to Arguments

Applicants argue that the Office has not indicated why Maxwell would require a humectant and why it would be obvious to incorporate glycerol into Maxwell's bars. This is not found persuasive. In the new rejection above, the disclosure of Cook et al. is discussed. Cook et al. teaches that lowering the water activity of a food product increases its shelf life and inhibits microbial growth. Cook et al. also teaches the use of glycerol in a food bar. Therefore, a person of ordinary skill in the art would a have a reasonable expectation of success in using glycerol in the food bar taught by Maxwell in order to increase its shelf life and to inhibit microbial growth.

Applicants also argue that newly amended claim 16 is distinguished from Maxwell et al.'s bar. This is not found persuasive, in light of the new rejection, discussed above.

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Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELENIE MCCORMICK whose telephone number is (571)272-8037. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MM

/Christopher R. Tate/ Primary Examiner, Art Unit 1655